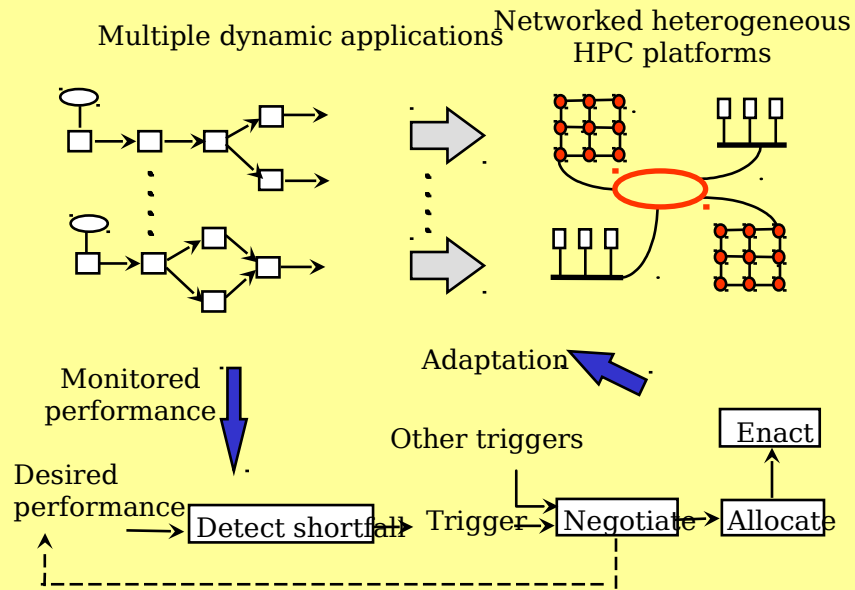


E317: Adaptive Resource Management for Embedded HPC



NEW IDEAS

1. **On-line monitoring** of runtime behavior, for **continual (re)allocation** of resources.
2. **Incremental (re)allocation algorithms and QoS negotiation protocols.**
3. **Plug and play architecture** based on separating adaptation models from run-time support.

IMPACT

1. **Deliver aggregate computing power** of distributed computing resources to multiple application systems.
2. Enable **adaptive and agile applications** that reconfigure themselves in response to drivers such as performance, algorithm adaptation, faults, discovery of new resources

SCHEDULE

10/96	Program Kickoff
06/97	QoS architecture design
11/97	Admission control + adaptation
04/98	Prototype negotiation protocol
12/98	Adaptation models
05/99	Incorporate into AO# F216